

FORM PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket No.: WNET-00500

Serial No.: 09/159,267

INFORMATION DISCLOSURE STATEMENT BY APPLICANT  
(See Several Sheets If Necessary)

Applicant: Kirk Treadaway et al.

Filing Date: Sept. 23, 1998

Group Art Unit: 2731 2661

(37 CFR § 1.98(b))

## U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
15	AA	3,564,144	2/16/71	Diggelmann	<del>179</del>	15	<del>8/14/67</del>
	AB	3,988,545	10/26/76	Kuemmerle et al.	<del>179</del>	15 BV	<del>4/23/75</del>
	AC	4,731,785	3/15/88	Ferenc et al.	<del>370</del>	60	<del>6/20/86</del>
	AD	4,876,742	10/24/89	Vacon et al.	<del>455</del>	66	<del>3/23/87</del>
	AE	4,893,340	1/9/90	Lubarsky et al.	<del>380</del>	50	<del>10/5/88</del>
	AF	5,050,166	9/17/91	Cantoni et al.	<del>370</del>	94.1	<del>4/28/89</del>
	AG	5,119,226	6/2/92	Allen et al.	<del>359</del>	172	<del>3/30/89</del>
	AH	5,159,592	10/27/92	Perkins	<del>370</del>	85.7	<del>10/29/90</del>
	AI	5,220,678	1/15/93	Feei	<del>455</del>	69	<del>8/12/91</del>
	AJ	5,276,703	1/4/94	Budin et al.	<del>375</del>	1	<del>1/13/92</del>
	AK	5,307,348	3/26/94	Buchholz et al.	<del>370</del>	85.2	<del>11/5/90</del>
	AL	5,436,902	7/25/95	McNamara et al.	<del>370</del>	83.3	<del>4/5/94</del>
	AM	5,442,633	8/15/95	Perkins et al.	<del>370</del>	94.1	<del>7/8/92</del>
	AN	5,475,681	12/12/95	White et al.	<del>370</del>	60	<del>1/31/94</del>
	AO	5,519,691	5/21/96	Darcie et al.	<del>370</del>	18	<del>6/3/94</del>
	AP	5,563,728	10/8/96	Allen et al.	<del>359</del>	172	<del>2/22/94</del>
	AQ	5,563,889	10/8/96	Gard et al.	<del>370</del>		

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		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	No
15	AR	2 306 278 A	4/30/97	United Kingdom	H04L	1/00	Group 2700	
16	AS	WO 94/27382	11/24/94	PCT	H04B	7/216		

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

15	AT	"Design of A Selective FEC Subsystem to Counteract Rain Fading in Ku-Band TDMA Systems," G. McMillen, B. Mazur and T. Abdel-Nabi, International Journal of Satellite Communications, Vol. 4, pp. 75-82, 1986
17	AU	"Frequency Diversity and Its Applications," F. Carassa, G. Tartara and E. Matricciani, International Journal of Satellite Communications, Vol. 6, pp. 313-322, 1988
	AV	"Up-Link Power Control of Satellite Earth-Stations As A Fade Countermeasure of 20/30 GHz Communications Systems," J. Hörle, International Journal of Satellite Communications, Vol. 6, pp. 323-330, 1988
	AW	"A Technique for Estimating the Throughput of Adaptive TDMA Fade Countermeasure Systems," S. Barton and S. Dinwiddy, International Journal of Satellite Communications, Vol. 6, pp. 331-341, 1988
18	AX	"Fade Countermeasures At K <sub>a</sub> Band for Olympus," M. Willis and B. Evans, International Journal of Satellite Communications, Vol. 6, pp. 301-311, 1988
19	AY	"A Unified Statistical Rain-Attenuation Model for Communication Link Fade Predictions and Optimal Stochastic Fade Control Design Using A Location-Dependent Rain-Statistics Database," Robert Manning, International Journal of Satellite Communications, Vol. 8, pp. 11-30, 1990
	AZ	

Examiner:

Date Considered:

EXAMINER:

Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Attorney Docket No.: WNET-00500

Serial No.: 09/159,267

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
(Use Several Sheets If Necessary)

Applicant: Moshe Nattiv *et al.*

Filing Date: Sept. 23, 1998

Group Art Unit: ~~272~~ 2664

(37 CFR § 1.98(b))

**OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)**

BA

"Adaptive Modulation As A Fade Countermeasure. An Olympus Experiment," M. Filip and E. Vilar, International Journal of Satellite Communications, Vol. 8, pp. 31-41, 1990

BB

Radiowave Propagation in Satellite Communications, Louis J. Ippolito, Jr., Van Nostrand Reinhold Company 1986, pp. 42-57 and 64-92

BC

Digital Communications, John G. Proakis, Mc Graw-Hill, Third Edition, 1990, pp. 278-285

BD

CDMA Principles of Spread Spectrum Communication, Andrew J. Viterbi, Addison-Wesley Wireless Communications Series, 1995, pp. 155-168

BE

Information on Giganet Ltd., the Microwave Fiber™ company, displayed at www.giganet-corp.com, April 21, 1998

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Date Considered:

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Serial No.: 09/159,267

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use Several Sheets If Necessary)

Applicant: Kirk Treadaway *et al.*

(37 CFR § 1.98(b))

Filing Date: Sept. 23, 1998

Group Art Unit: 2731 2667

## U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
48	AA	5,754,945	05/19/98	Lin <i>et al.</i>	455	338	08/18/96
	AB	5,657,371	08/12/97	Mahany <i>et al.</i>	370	338	07/22/94
	AC	5,648,969	07/15/97	Pasternak <i>et al.</i>	370	349	02/13/95
	AD	5,636,213	06/03/97	Eastmond <i>et al.</i>	370	278	12/28/94
	AE	5,313,461	05/17/94	Ahl <i>et al.</i>	370	94.2	06/08/92
	AF	5,303,303	04/12/94	White	380	49	02/08/93
	AG	4,975,906	12/04/90	Takiyasu <i>et al.</i>	370	85.130	02/09/89
	AH						
	AI						
	AJ						

## FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
48	AK	GB 2316583 A	02/25/98	UK	H04L	29/06	✓	
	AL	WO 98/10541A1	03/12/98	PCT	H04J	3/16		
	AM							
	AN							
	AO							

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	AP	Goldberg, Lee, "100Base-T4 Transceiver Simplifies Adapter, Repeater, and Switch Designs," Electronic Design, vol. 43, no. 6, March 1995, USA.
	AQ	
	AR	
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	AW	
	AX	
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	AZ	

Examiner:

W. H. Lee

Date Considered:

5/3/04

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FORM PTO 449  
(Modified)

U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket No.: WNET-00500

Serial No.: 09/159,267

INFORMATION DISCLOSURE STATEMENT BY APPLICANT  
(Use Several Sheets If Necessary)

Applicant: Kirk Treadaway *et al.*

(37 CFR § 1.98(b))

Filing Date: Sept. 23, 1998

Group Art Unit: 2731 2664

U.S. PATENT DOCUMENTS

Examiner Initials		Serial / Patent Number	Issue Date	Applicant / Patentee	Class	Subclass	Filing Date
<i>JS</i>	AA	5,953,319	09/14/99	Dutta et al.	<del>370</del>	<del>238</del>	<del>09/29/95</del>
	AB						
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FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country / Patent Office	Class	Subclass	Translation	
							Yes	No
	AK							
	AL							
	AM							
	AN							
	AO							

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

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Examiner:

*William L. G.*

Date Considered:

*5/3/01*

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Sheet	1	of	1
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<b>Application Number</b>	09/159,267
<b>Filing Date</b>	September 23, 1998
<b>First Named Inventor</b>	Kirk TREADAWAY et al.
<b>Group Art Unit</b>	2731 2664
<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	TREADAWAY=1A

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FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Number			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number	Kind Code <sup>5</sup> (if known)				
C/O	AA	EP	0 663 785	A2	NOKIA MOBILE PHONES LTD.	07-19-1995		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			T <sup>2</sup>
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
	AB	European Ptnt Office: <u>Patent Abstracts of Japan</u> , Abstract for JP 07336367, published December 22, 1995, applicant: CANON INC., title: "Radio Communication Equipment"	

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.